

Seokkoo Kang

List of Publications by Year in descending order

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43
papers

1,650
citations

361045

20
h-index

288905

40
g-index

44
all docs

44
docs citations

44
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and computational investigation of local scour around bridge piers. <i>Advances in Water Resources</i> , 2012, 37, 73-85.	1.7	182
2	On the onset of wake meandering for an axial flow turbine in a turbulent open channel flow. <i>Journal of Fluid Mechanics</i> , 2014, 744, 376-403.	1.4	172
3	High-resolution numerical simulation of turbulence in natural waterways. <i>Advances in Water Resources</i> , 2011, 34, 98-113.	1.7	135
4	Numerical simulation of 3D flow past a real-life marine hydrokinetic turbine. <i>Advances in Water Resources</i> , 2012, 39, 33-43.	1.7	120
5	Computational study and modeling of turbine spacing effects in infinite aligned wind farms. <i>Physics of Fluids</i> , 2012, 24, .	1.6	109
6	Curvilinear immersed boundary method for simulating coupled flow and bed morphodynamic interactions due to sediment transport phenomena. <i>Advances in Water Resources</i> , 2011, 34, 829-843.	1.7	106
7	Level set immersed boundary method for coupled simulation of air/water interaction with complex floating structures. <i>Journal of Computational Physics</i> , 2014, 277, 201-227.	1.9	93
8	Flow phenomena and mechanisms in a field-scale experimental meandering channel with a pool-riffle sequence: Insights gained via numerical simulation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	71
9	Computational and experimental investigation of scour past laboratory models of stream restoration rock structures. <i>Advances in Water Resources</i> , 2013, 54, 191-207.	1.7	67
10	Numerical modeling of 3D turbulent free surface flow in natural waterways. <i>Advances in Water Resources</i> , 2012, 40, 23-36.	1.7	63
11	Experimental Investigation of Three-dimensional Flow Structure and Turbulent Flow Mechanisms Around a Nonsubmerged Spur Dike With a Low Length-to-Depth Ratio. <i>Water Resources Research</i> , 2018, 54, 3530-3556.	1.7	52
12	Fluid dynamics simulations show that facial masks can suppress the spread of COVID-19 in indoor environments. <i>AIP Advances</i> , 2020, 10, .	0.6	48
13	On the structure of vortex rings from inclined nozzles. <i>Journal of Fluid Mechanics</i> , 2011, 686, 451-483.	1.4	41
14	Achieving enhanced nitrification in communities of nitrifying bacteria in full-scale wastewater treatment plants via optimal temperature and pH. <i>Separation and Purification Technology</i> , 2014, 132, 697-703.	3.9	40
15	Assessing the predictive capabilities of isotropic, eddy viscosity Reynolds-averaged turbulence models in a natural-like meandering channel. <i>Water Resources Research</i> , 2012, 48, .	1.7	39
16	Water exit dynamics of jumping archer fish: Integrating two-phase flow large-eddy simulation with experimental measurements. <i>Physics of Fluids</i> , 2020, 32, .	1.6	29
17	A computational study of expiratory particle transport and vortex dynamics during breathing with and without face masks. <i>Physics of Fluids</i> , 2021, 33, 066605.	1.6	28
18	An improved near-wall modeling for large-eddy simulation using immersed boundary methods. <i>International Journal for Numerical Methods in Fluids</i> , 2015, 78, 76-88.	0.9	26

#	ARTICLE	IF	CITATIONS
19	On the turbulent flow structure around an instream structure with realistic geometry. <i>Water Resources Research</i> , 2016, 52, 7869-7891.	1.7	21
20	Large-Eddy Simulation of Three-Dimensional Turbulent Free Surface Flow Past a Complex Stream Restoration Structure. <i>Journal of Hydraulic Engineering</i> , 2015, 141, .	0.7	20
21	Monitoring influential environmental conditions affecting communities of denitrifying and nitrifying bacteria in a combined anoxic-oxic activated sludge system. <i>International Biodeterioration and Biodegradation</i> , 2015, 100, 1-6.	1.9	19
22	Fully coupled free-surface flow and sediment transport modelling of flash floods in a desert stream in the Mojave Desert, California. <i>Hydrological Processes</i> , 2019, 33, 2772-2791.	1.1	18
23	On the genesis and evolution of barchan dunes: Hydrodynamics. <i>Physics of Fluids</i> , 2020, 32, 086602.	1.6	18
24	Experimental study of the wake characteristics of an axial flow hydrokinetic turbine at different tip speed ratios. <i>Ocean Engineering</i> , 2020, 196, 106777.	1.9	13
25	Turbulent flow characteristics around a non-submerged rectangular obstacle on the side of an open channel. <i>Physics of Fluids</i> , 2021, 33, .	1.6	13
26	Numerical study of flow dynamics around a stream restoration structure in a meandering channel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2015, 53, 178-185.	0.7	12
27	Large-eddy simulation of flash flood propagation and sediment transport in a dry-bed desert stream. <i>International Journal of Sediment Research</i> , 2020, 35, 576-586.	1.8	11
28	Assessment of Parshall flumes for discharge measurement of open-channel flows: A comparative numerical and field case study. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 167, 108292.	2.5	11
29	Wake interactions of two horizontal axis tidal turbines in tandem. <i>Ocean Engineering</i> , 2022, 254, 111331.	1.9	11
30	Remote sensing-based evapotranspiration algorithm: a case study of all sky conditions on a regional scale. <i>GIScience and Remote Sensing</i> , 2015, 52, 627-642.	2.4	10
31	Data-Driven Prediction of Turbulent Flow Statistics Past Bridge Piers in Large-Scale Rivers Using Convolutional Neural Networks. <i>Water Resources Research</i> , 2022, 58, .	1.7	10
32	Mean Flow and Turbulence Characteristics around Multiple-Arm Instream Structures and Comparison with Single-Arm Structures. <i>Journal of Hydraulic Engineering</i> , 2020, 146, .	0.7	9
33	Fully three-dimensional Reynolds-averaged Navier-Stokes modeling for solving free surface flows around coastal drainage gates. <i>Journal of Hydro-Environment Research</i> , 2016, 13, 121-133.	1.0	8
34	Mean flow and turbulence characteristics around single-arm instream structures. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2021, 59, 404-419.	0.7	8
35	Large-Eddy Simulation of Wakes of Waked Wind Turbines. <i>Energies</i> , 2022, 15, 2899.	1.6	7
36	Large-eddy simulation study of turbulent flow around a rectangular spur dike. <i>E3S Web of Conferences</i> , 2018, 40, 05013.	0.2	4

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37	Numerical Modelling of Large Swell Waves using Different Atmospheric Reanalysis Data in East Sea. Journal of Coastal Research, 2017, 79, 164-168.	0.1	2
38	Optimization of operating variables in a pilot-scale reverse osmosis membrane process for reclamation of tunnel construction wastewater. Desalination and Water Treatment, 2016, 57, 12082-12089.	1.0	1
39	Land Surface Models Evaluation for Two Different Land-Cover Types: Cropland and Forest. Terrestrial, Atmospheric and Oceanic Sciences, 2016, 27, 153.	0.3	1
40	Application of KOMSAT-2 Imageries for Change Detection of Land use and Land Cover in the West Coasts of the Korean Peninsula. Korean Journal of Remote Sensing, 2016, 32, 141-153.	0.4	1
41	Lagrangian dynamics of contaminant particles released from a point source in New York City. Physics of Fluids, 0, , .	1.6	1
42	Application of a combined three-stage system for reclamation of tunnel construction wastewater. Environmental Technology (United Kingdom), 2015, 36, 2357-2363.	1.2	0
43	Discharge Characteristics of Drainage Gates on Saemangeum Tidal Dyke, South Korea. KSCE Journal of Civil Engineering, 2021, 25, 1308-1325.	0.9	0